

Q/01212

(FILE 'HOME' ENTERED AT 17:19:46 ON 25 JAN 2002)

FILE 'MEDLINE, CAPLUS' ENTERED AT 17:19:56 ON 25 JAN 2002
L1 0 S (CONNECTIN) (10A) (CHICKEN) (10A) (MUTATION OR POLYMORPHISM)
L2 0 S (CONNECTIN) AND (CHICKEN) AND (MUTATION OR POLYMORPHISM)
L3 129 S (CONNECTIN) AND (CHICKEN)
L4 91 DUP REM L3 (38 DUPLICATES REMOVED)
L5 6 S L4 AND GENE
L6 562 S CONNECTIN AND TITIN
L7 450 DUP REM L6 (112 DUPLICATES REMOVED)
L8 13 S L7 AND MUTATION

FILE 'STNGUIDE' ENTERED AT 17:27:31 ON 25 JAN 2002

L8 ANSWER 10 OF 13 MEDLINE
AN 97324091 MEDLINE
DN 97324091 PubMed ID: 9180260
TI Deletion in the Z-line region of the **titin** gene in a baby hamster kidney cell line, BHK-21-Bi.
AU Jackel M; Witt C; Antonova O; Curdt I; Labeit S; Jockusch H .
CS Developmental Biology Unit, University of Bielefeld, Germany.
SO FEBS LETTERS, (1997 May 12) 408 (1) 21-4.
Journal code: EUH; 0155157. ISSN: 0014-5793.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199706
ED Entered STN: 19970716
Last Updated on STN: 19970716
Entered Medline: 19970627
AB The gene for **titin**, a 4MDa myofibrillar protein, was analysed in golden hamster DNAs from different sources, using human cDNA probes and PCR. In the DNA from the BHK-21-Bi subline of baby hamster kidney cells, extended sequences coding for Z-line associated domains were missing, indicating a deletion that renders **titin** non-functional. These sequences were present in the original BHK-21 line and in hamster DNAs. Our finding shows that, due to the absence of selective pressure on a gene's function, genomic deterioration can occur in a permanent cell line and can lead to a loss of overlapping DNA stretches in both autosomes.